



***DARPA*Tech**

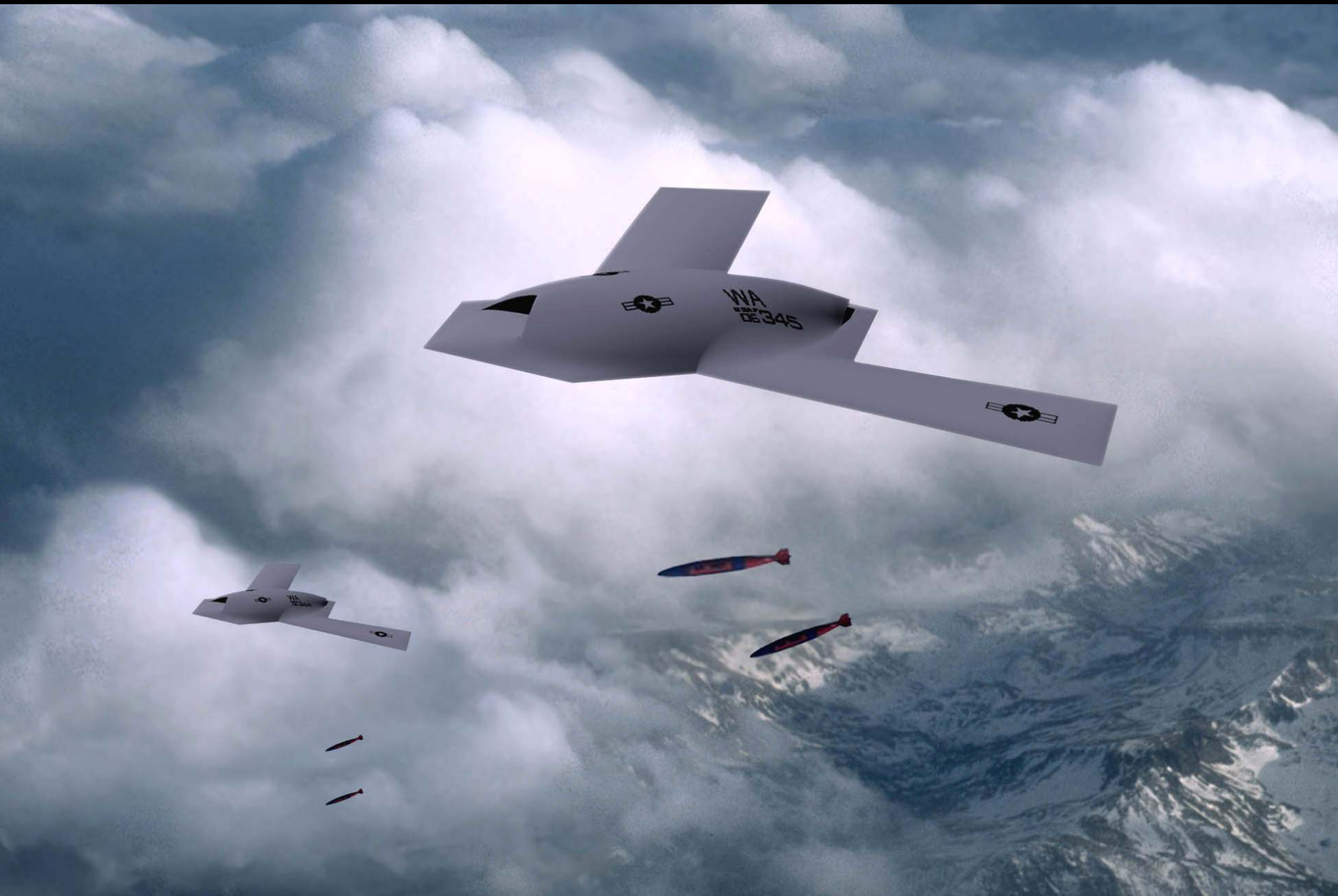
2002 Symposium

Transforming
Fantasy



**COL Michael
Leahy, USAF**
Program Manager



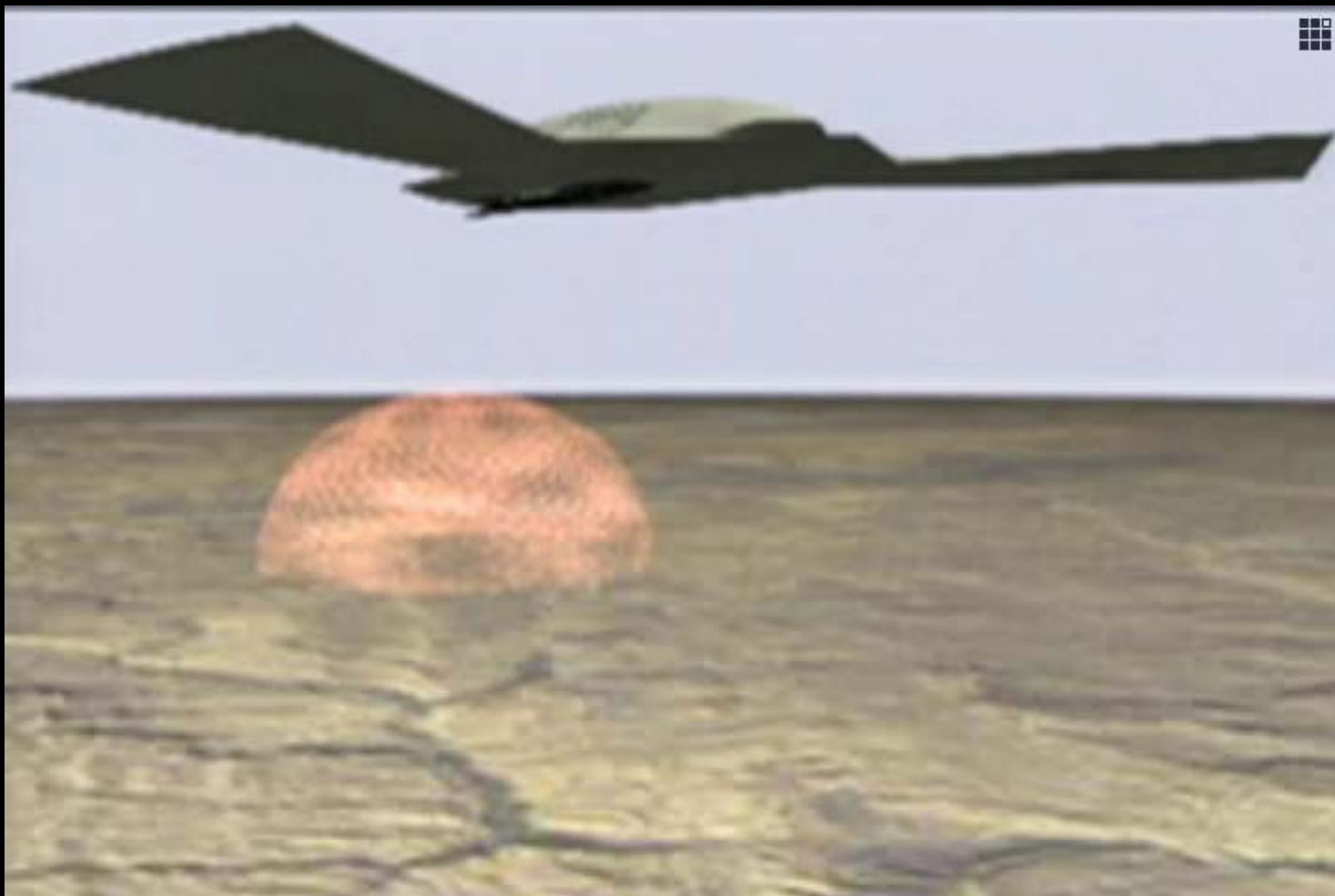




U.S. AIR FORCE





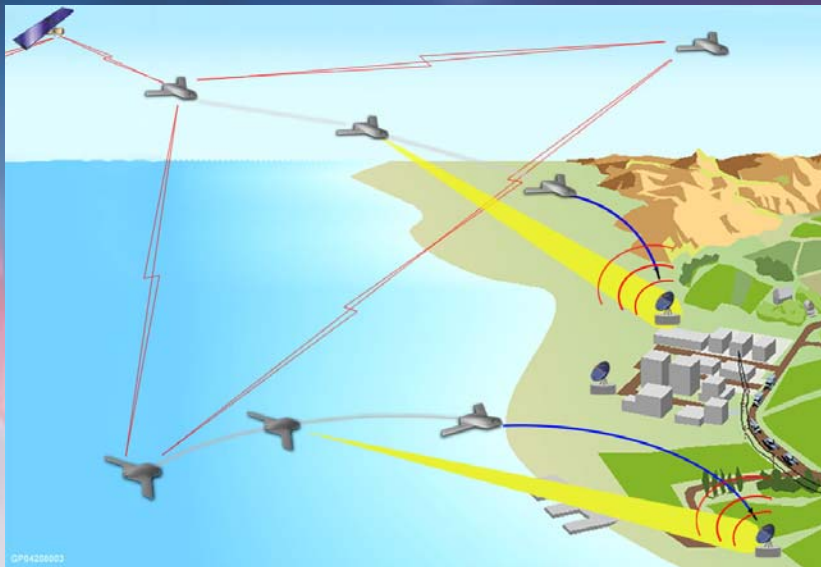




UOS Primary Mission Set



U.S. AIR FORCE



**Focus is on
Preemptive & Reactive
SEAD**

Required Functions

- Find
- Fix
- Track
- Target
- Attack
- Assess



UCAV X-45

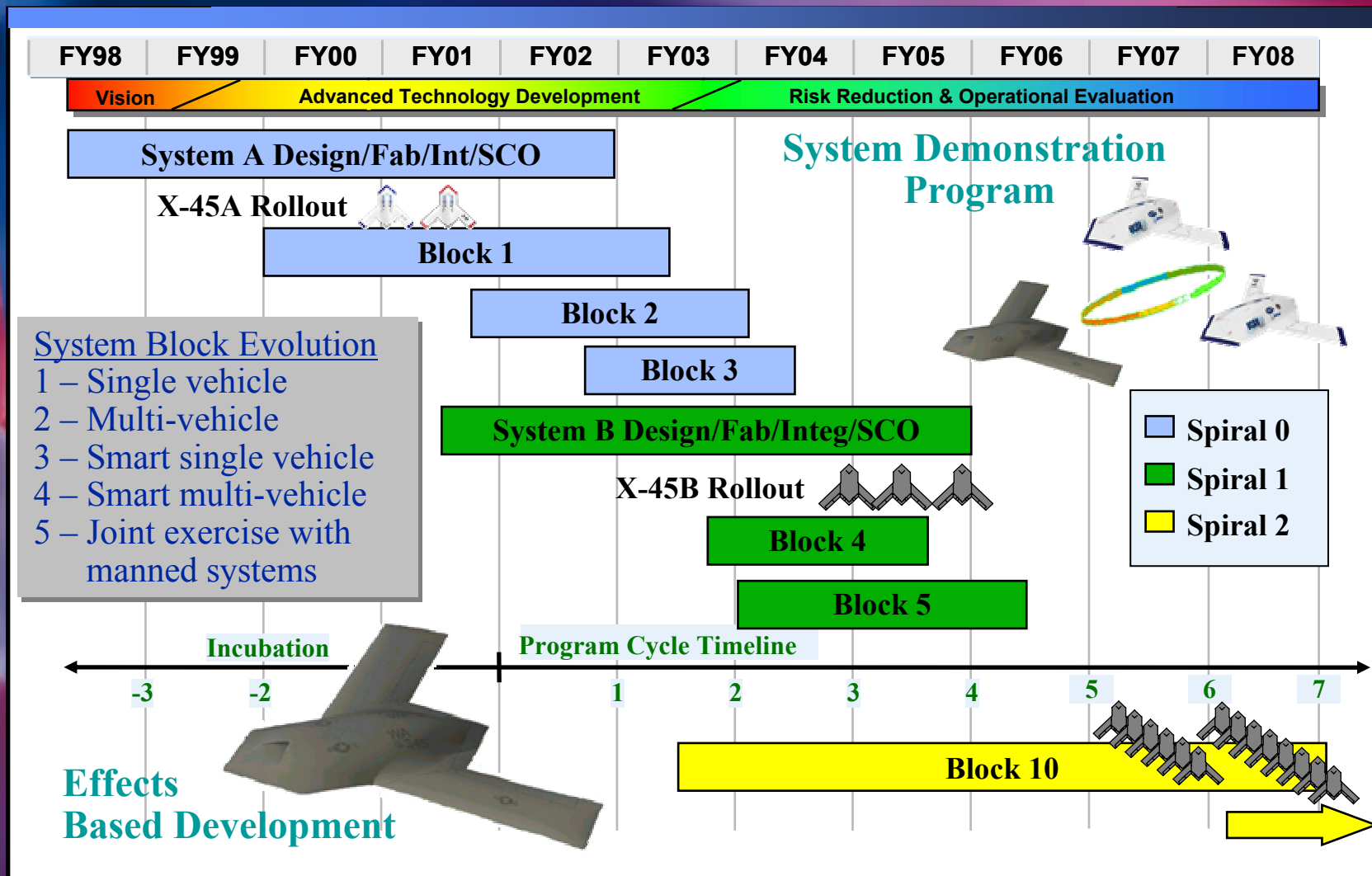


1b2991.avi Video

From 6:09-6:44



UCAV Path to Combat Ops

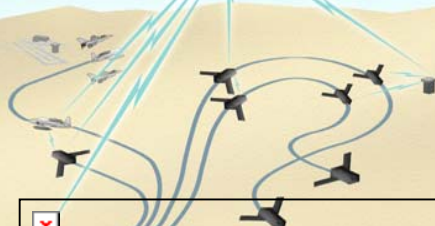


One Program – Four Main Thrusts

**X-45A Check-Out
(Spiral 0)**



**Critical Demos
(Spiral 0)**



**X-45B
(Spiral 1)**



**Acquisition Planning
(Spiral 2, 3,...)**

98 99 00 01 02 03 04 05 06 07 08 09 10 11

Spiral 0/1 System Demo Program

Spiral 2

Spiral 3

Spiral 4

Effects Based Development

Demonstrate UCAV technical feasibility, military utility and operational value



Rapidly field capabilities to support Warfighter's incremental CONOPS

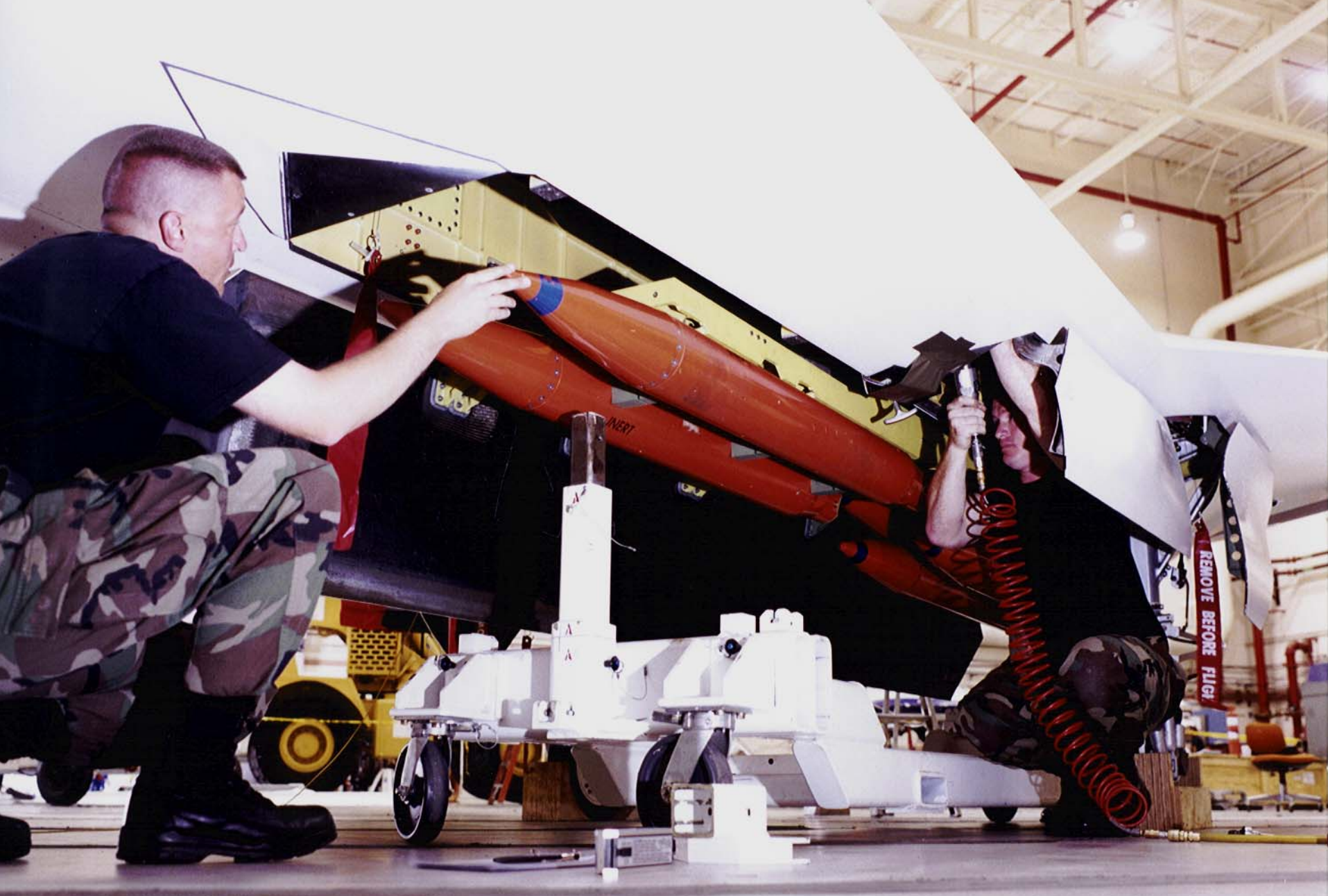
UCAV X-45

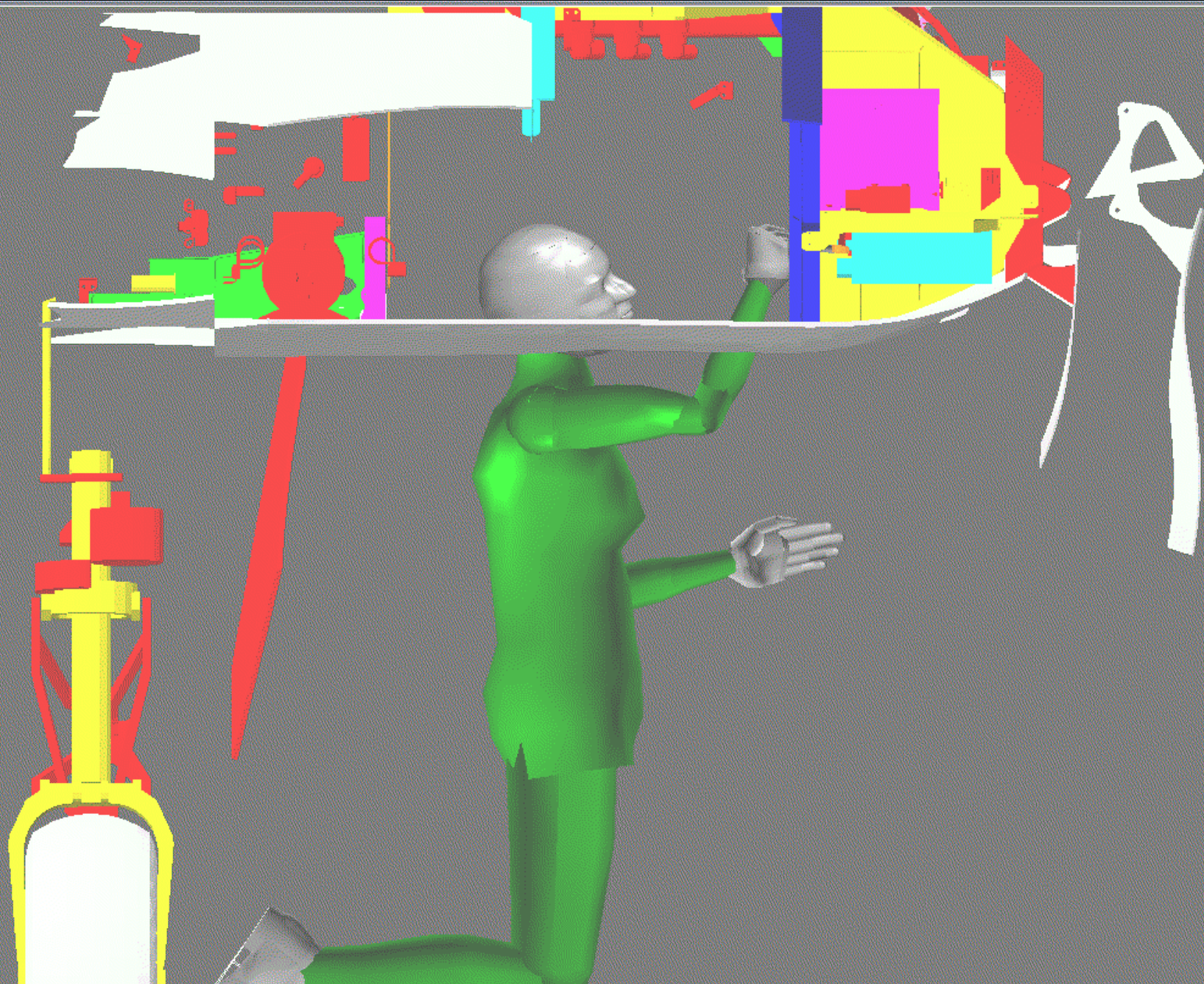
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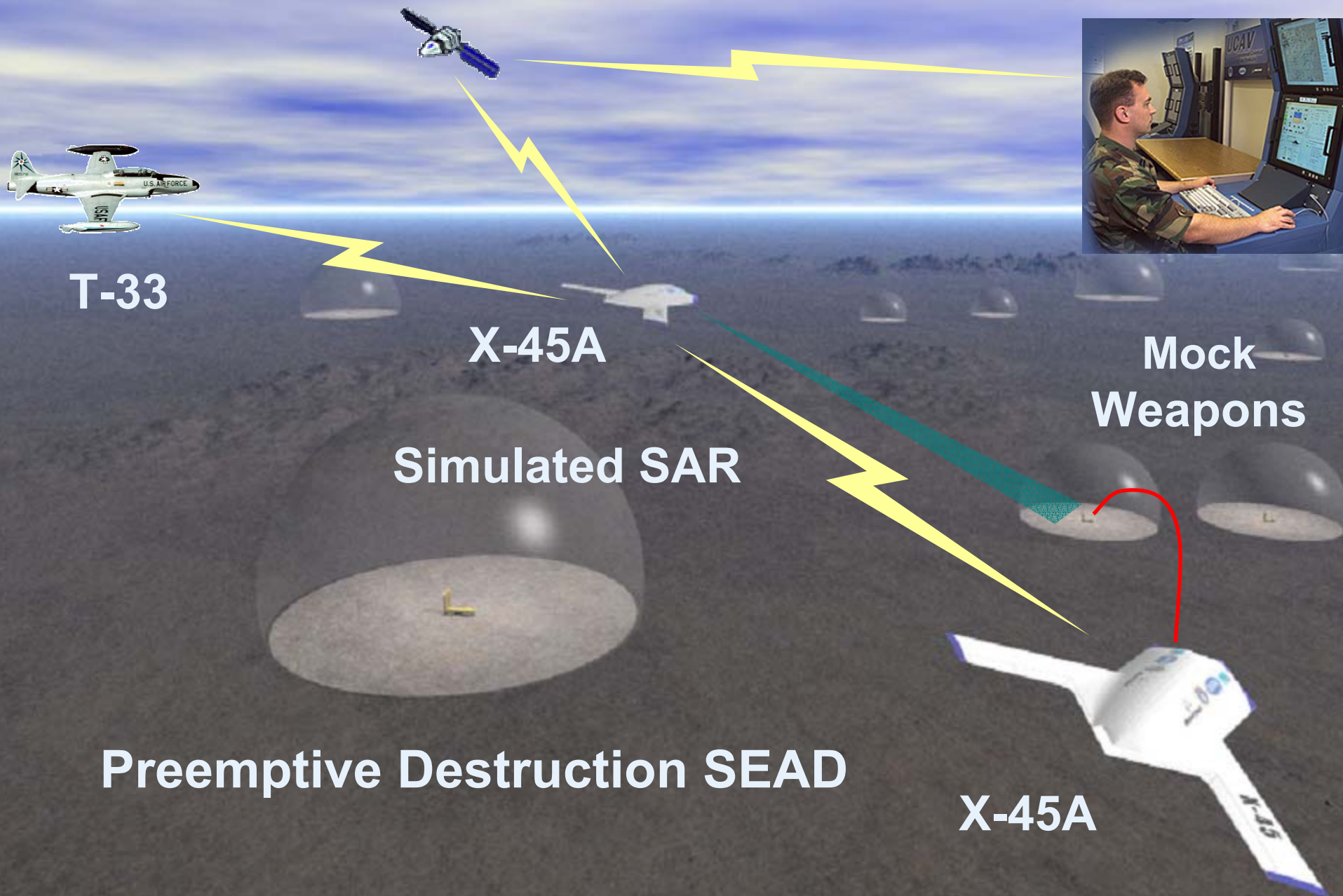


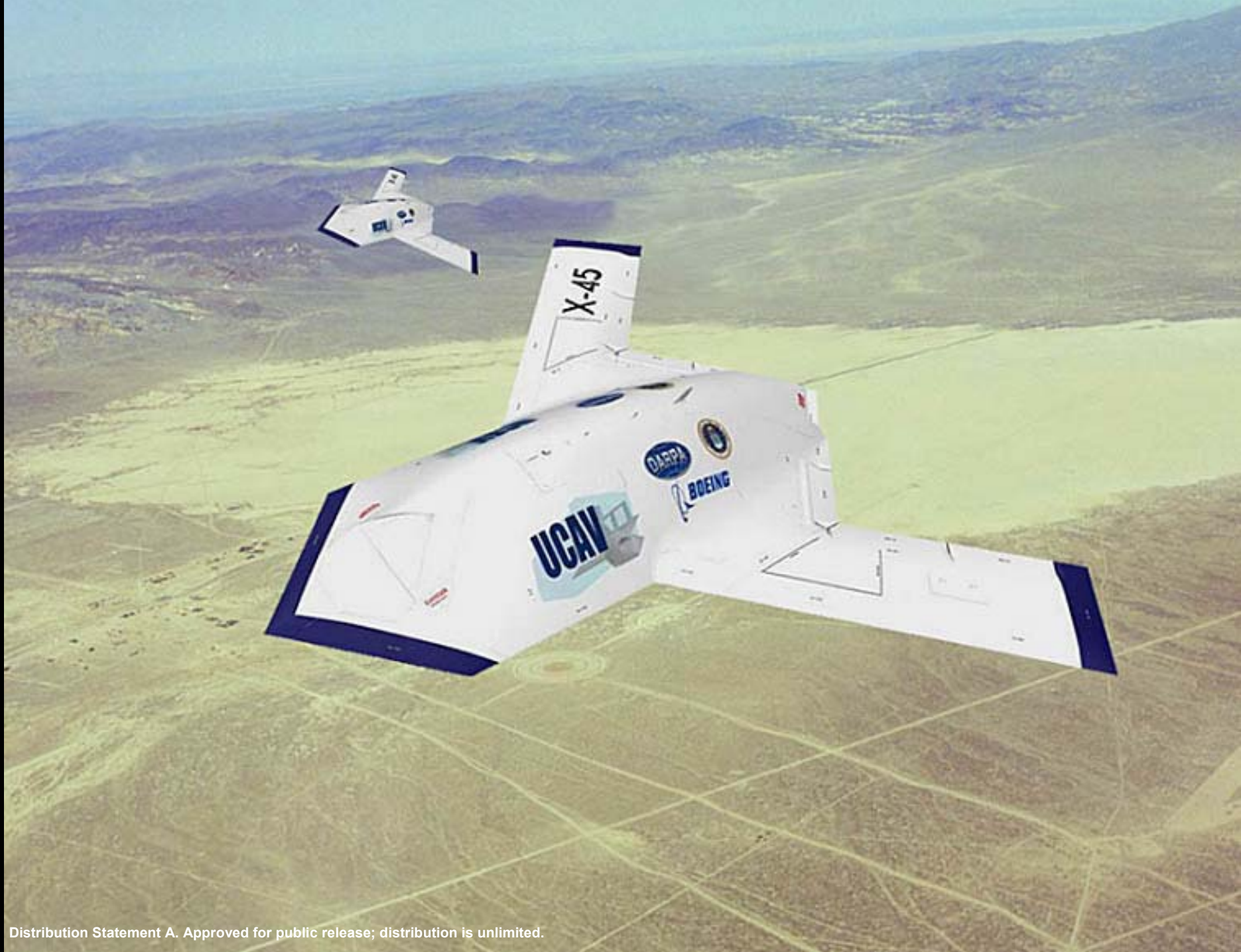








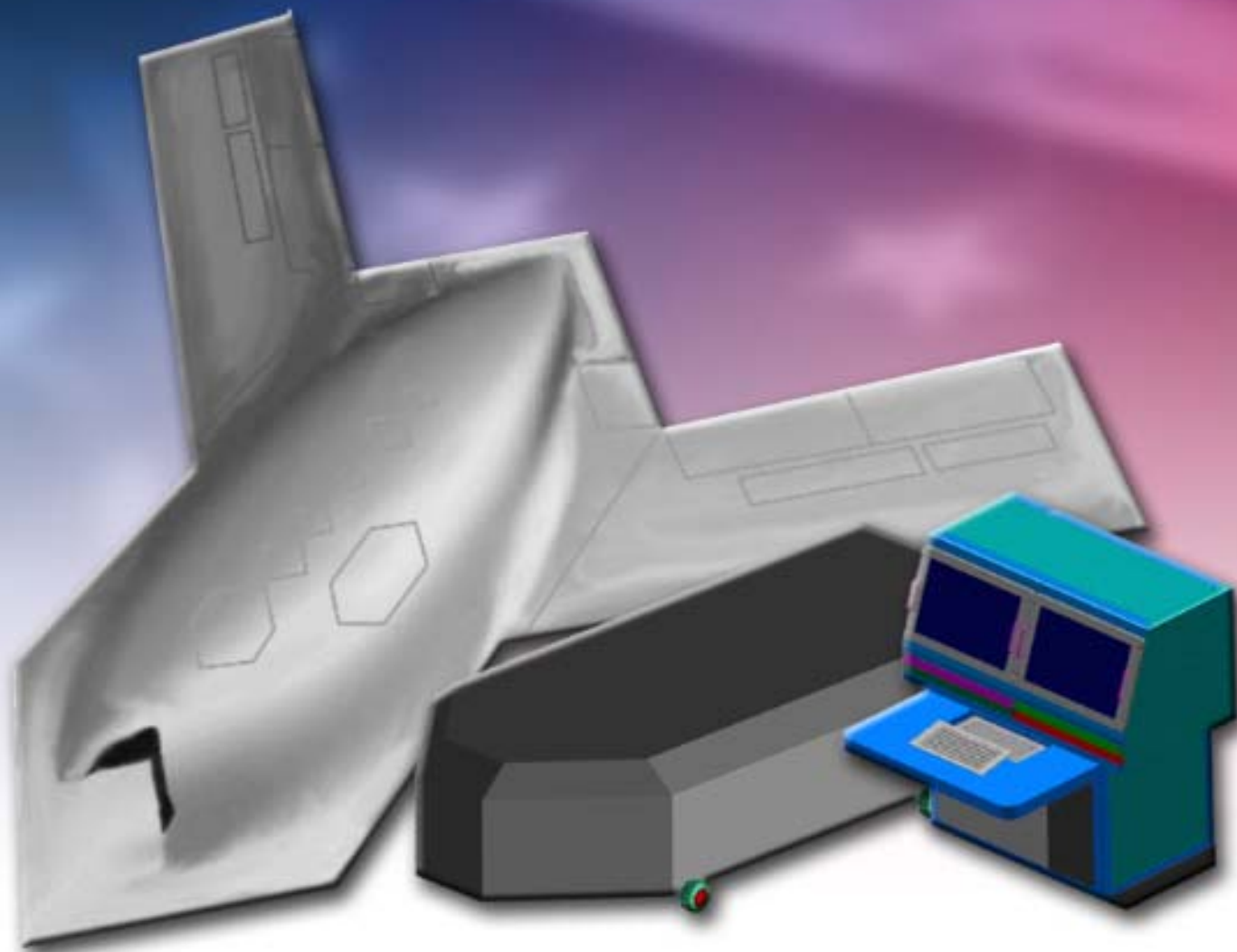




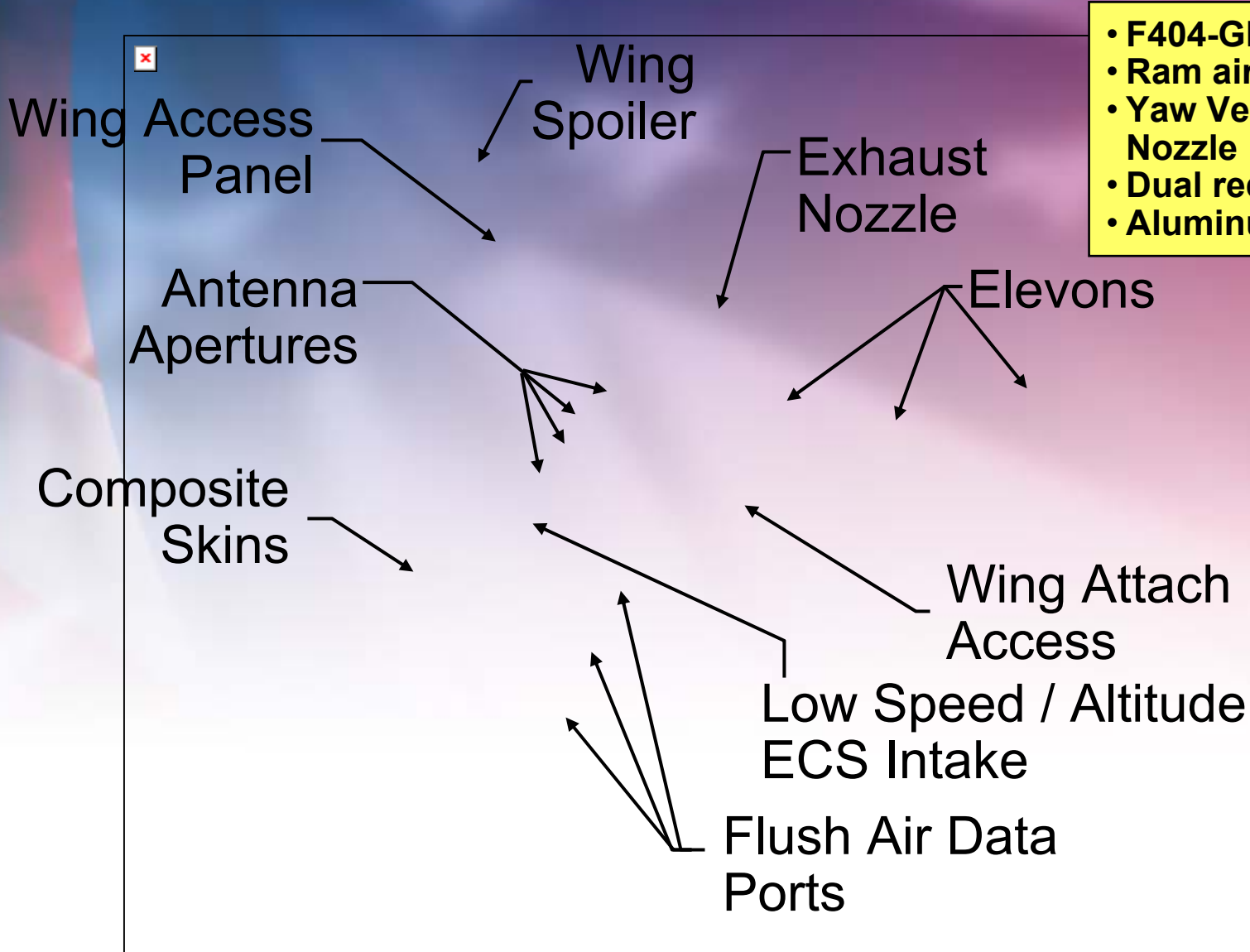








X-45B Configuration



- F404-GE-102D engine
- Ram air ECS
- Yaw Vectoring Exhaust Nozzle
- Dual redundant VMSCs
- Aluminum substructure





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